

# (12) UK Patent Application

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(56) Documents cited

GB A 2170633	GB A 2143977	GB A 2119552
GB A 2068158	GB 1215009	US 4187497
US 3893069	US 3668675	US 3618067

(58) Field of search

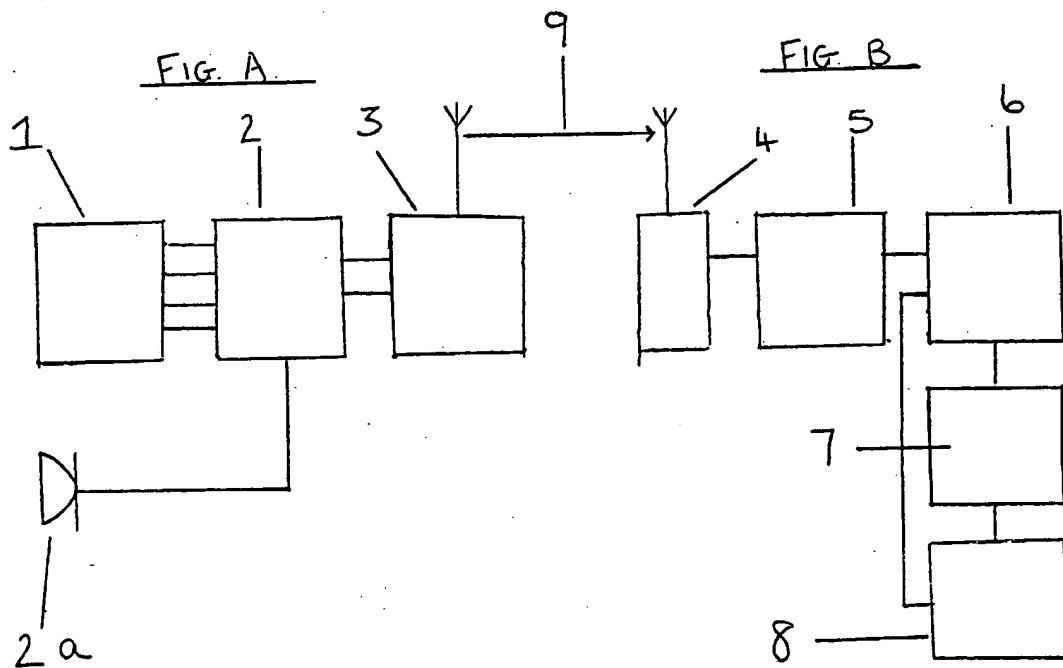
G4N  
Selected US specifications from IPC sub-classes  
G08B B60R

## (54) Car security system

(57) The Car Security System warns of a car being stolen or broken into by means of a signal sent from hardware 2, 3 in the vehicle to a Visual Display Unit in a Police Station via a Multiplex signal 9. The signal is sent when the owner fails to input his personal code within twenty seconds into a Key-pad 1 located in the dashboard. The signal is received in the Police Station, de-coded 6, logged 7 and displayed on the Visual Display Unit 8.

In addition a one-way speech microphone 2a may be installed in the vehicle. The system is also activated if the Key-pad is disconnected.

If the rear windscreen was broken the signal would be routed via the front windscreen or other suitable places on the vehicle that may be used to transmit the signal.



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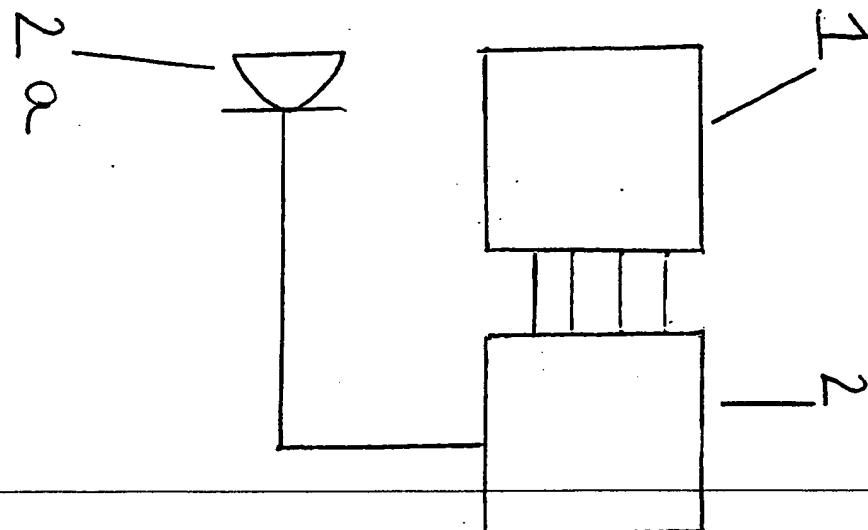


FIG. A

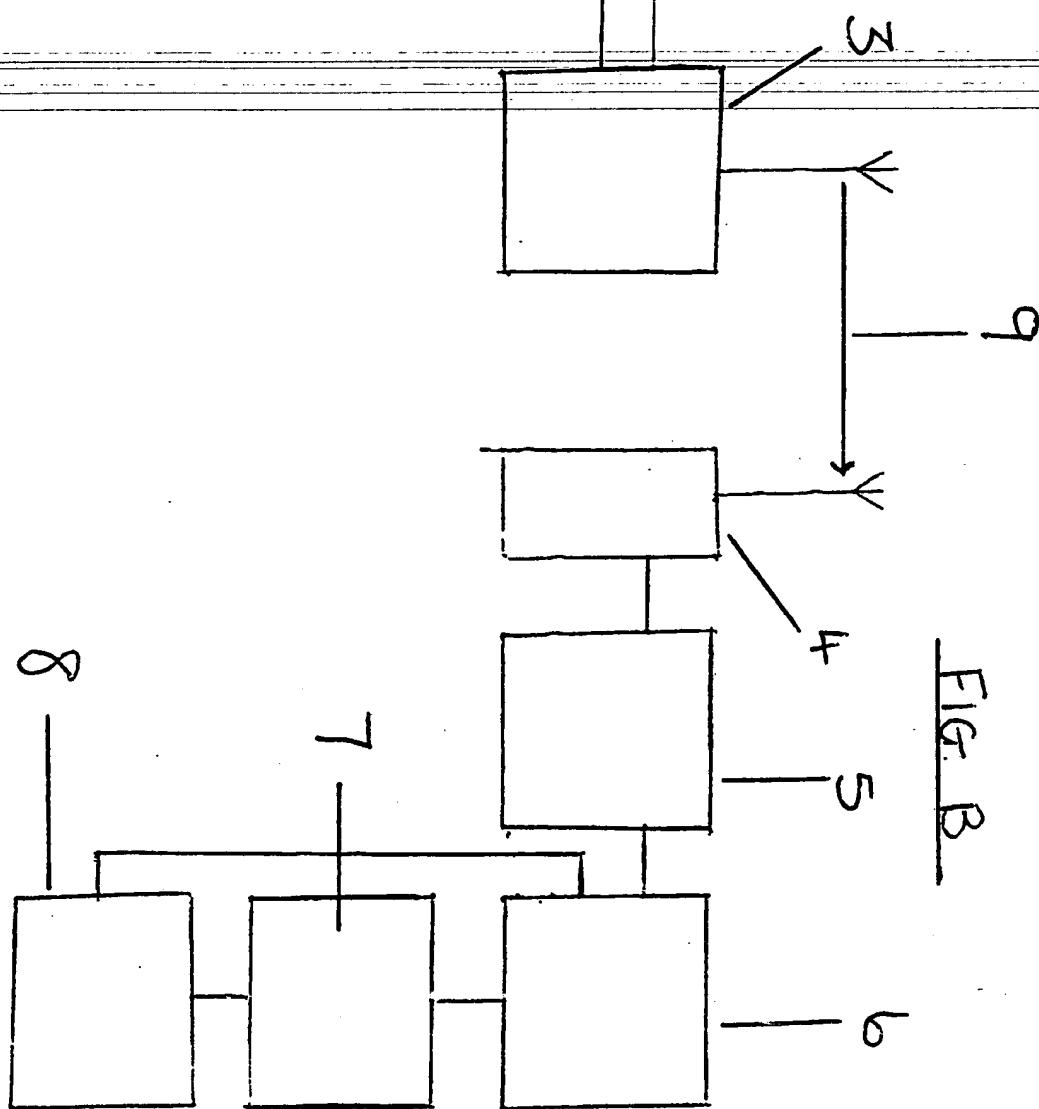


FIG. B

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A Car Nationwide Security System.

This invention related to an anti-theft device for vehicles.

According to the present invention on unlocking the vehicle the owner has twenty seconds in which to insert his personal code in his Key-pad. Should an error be made the owner has a further ten seconds in which to use the cancel button and enter the correct code. If the correct code is not entered at the end of this time the hardware in the vehicle which works off it's own power source would transmit a sky-wave signal which would be picked up by Police Stations within a forty mile range, reaching each station at different times, the computer installed in the stations would then be able to calculate exactly where the signal came from.

This would happen within forty seconds. The signal would consist of the registration of the vehicle, name and address of the owner, vehicle make and colour, chassis number and owners personal code. ~~The signal would be transmitted form the Key-pad in the dashboard to a programmable chip and transmitter concealed in the vehicle to a receiver in the Police Stations via the Multiplex signal to a computer de-coder then logged and displayed on a Visual Display Unit.~~ The Multiplex signal enables several signals to be received at the same time then de-coded, logged and displayed individually. The high speed signal would be sent in Morse Code every five seconds until the correct code was entered into the Key-pad thereby stopping trandmission.

Micro Switches would be fitted to windows, doors and boot of the vehicle, any forced entry would result in the vehicle transmitting to the Police receiver. Pressure pads would be installed in the rails of the vehicle's windows to prevent them from being pulled down.

In addition to this system a microphone with one-way speech may be installed and concealed in the roof of the vehicle for imortant people who may be in danger from kidnappers. This system works the same as described earlier but has the added advantage of one-way speech direvt to the police, computer via the same de-coder, logged and displayed on screen, the Police can then assess the situation as it is happening and act accordingly.

The system would be powered from a battery. The programmable chip, battery and transmitter would be housed in a box 30cm long, 10cm. wide, and 4 cm. deep. The Key-pad would be joined to the box by wire and the signal transmitted via the rear wind-screen however the chip would be programmed in such a way that if the rear wind-screen was broken the signal would be routed via the front wind-screen or other suitable part on the vehicle that may be used to transmit the signal.

If the Key-pad was disconnected this would also activate the system.

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Fig A shows the complete system in the vehicle.

1. Key-pad with numerals 0-9 inclusive and cancel button.
2. Programmable chip with coder.
- 2a. Microphone where appropriate.
3. Transmitter with aerial attached to rear wind-screen of vehicle.

Fig B shows complete receiving and tracking system installed in Police Stations.

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4. Receiver with receiving aerial.
  5. Multiplex signal system.
  6. Computer de-coder including speech de-coder.
  7. Logging system.
  8. Visual Display Unit.
  9. Sky-wave signal sent and received up to 40 mile range.

Claims.

1. A Car Nationwide Security System which will transmit a signal to Police Stations within a forty mile range of the vehicle operating when the vehicle has unlawfully been entered.

2. A Car Nationwide Security System as claimed in Claim 1 which has a one-way speech microphone installed to transmit when the vehicle has unlawfully been entered to Police Stations within a forty mile range.

3. A Car Nationwide Security System as claimed in Claim 1 & 2 which can transmit from a number of aerials on a vehicle if one transmission aerial is damaged.